

# PATENT ABSTRACTS OF JAPAN

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(21)Application number : 11-054204 (71)Applicant : KODO IDO TSUSHIN SECURITY  
GIJUTSU KENKYUSHO:KK

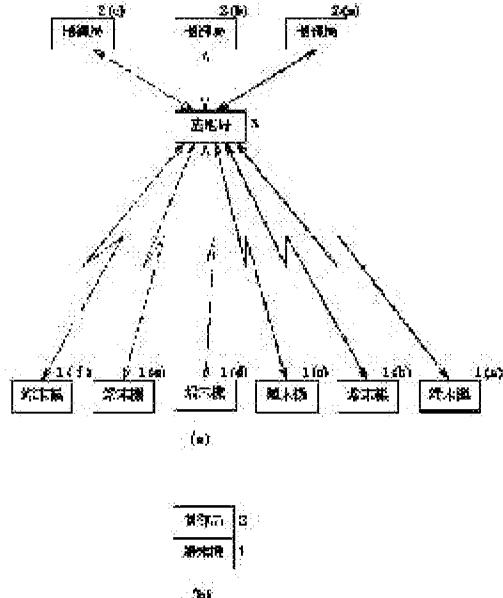
(22)Date of filing : 02.03.1999 (72)Inventor : TSURUMARU JUNICHIRO

## (54) CIPHER RADIO COMMUNICATION EQUIPMENT

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To independently execute security management in each organization user (e.g. a company) while using the same machine type of terminal equipment, control stations and base stations in radio communication.

**SOLUTION:** A radio communication equipment consists of plural terminal equipments 1 for transmitting/receiving information, plural control stations 2 for transmitting/receiving information and executing security management and at least one base station 3 for transmitting/receiving radio waves. Each control station 2 generates a 1st cipher key different in each terminal equipment and a 2nd cipher key different in each communication group. The control station 2 is arranged close to a corresponding terminal equipment and electrically connected to the terminal to store the 1st cipher key in the corresponding terminal equipment. The 2nd cipher key is ciphered by the 1st cipher key and distributed. Application information is ciphered by the 2nd cipher key and transmitted. Before using the radio communication device by a certain organized user after shipping it from a plant, the 1st cipher key can be secretly packaged. Since the 2nd cipher key to be used for group communication can be wirelessly distributed, the secrecy of communication can be individually maintained in each organized user.



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